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Drexel Institute of Technology

Circular of general information ... 1894-95

[Philadelphia]

[1894]

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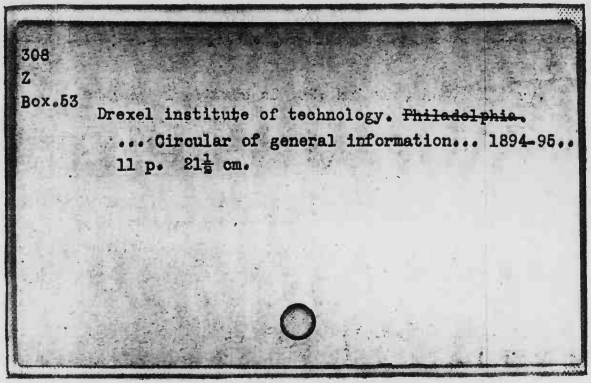

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DREXEL INSTITUTE

OF

ART, SCIENCE, AND INDUSTRY

PHILADELPHIA

FOUNDED BY ANTHONY J. DREXEL, 1891

JAMES MAC ALISTER, LL. D., President

CIRCULAR OF GENERAL INFORMATION

This circular contains a general statement of the organization of the Institute.

Special circulars of the several Departments, giving full details of the courses of instruction, requirements for admission, fees, etc., can be obtained on application to the Secretary and Registrar.

1894–95

First Term begins September 17

Second Term begins February 1

Drexel Institute
OF
Art, Science, and Industry

The Drexel Institute was founded by the late Anthony J. Drexel, in 1891, for the promotion of education in art, science, and industry. The chief object of the Institute is the extension and improvement of industrial education as a means of opening better and wider avenues of employment to young men and women. In accordance with the founder's desire, however, the plan of organization has been made comprehensive, providing liberal means of culture for the masses by means of lectures, evening classes, library, and museum.

Architecturally and with respect to its appointments, the building is one of the finest devoted to educational purposes in this country. On the first floor, opening from the Entrance-hall, are the Central Court (the chief architectural feature of the building), the Auditorium, the Science Lecture-room, the Library and Reading-room, and the Museum. The Auditorium, or Assembly-room, is a spacious hall capable of seating fifteen hundred persons, and is furnished with a grand organ. The Science Lecture-hall has chairs for three hundred students, and is equipped with every appliance necessary for scientific instruction. The Library and Reading-room is a fine apartment, 120 feet long by 60 feet wide. The Library already contains fifteen thousand volumes, about three thousand of which are valuable and important works in art, science, and technology

The Reading-room is supplied with one hundred and fifty periodicals in the various departments of literature, art, science, and technology. The Museum contains collections in textile fabrics, embroideries, ceramics, carvings in ivory and wood, metal-work, etc.; and a collection of paintings by some of the first masters, bequeathed to the Institute by Mr. Drexel. On the second and third floors, opening from the galleries which surround the Central Court, on the fourth floor, and in the basement are the smaller lecture-rooms, class-rooms, laboratories, studios, and workshops, numbering fifty-four in all, besides the coat-rooms and lavatories. The Gymnasium, occupying the fourth story in the front of the building, is a large, well-ventilated room supplied with dressing-rooms and bath-rooms. The building has its own steam, mechanical, and electrical plant. Great attention has been paid to the heating and ventilation of the building and it is lighted throughout by electricity. For the latter purpose, 2500 incandescent lamps are required.

The Annex contains ten additional rooms devoted to laboratory and class-room purposes.

The Institute, as at present constituted, comprises nine departments. While each department is organized with reference to its special objects and courses of instruction, it sustains important relations to the other departments, and the various lines of work are carried on in so broad a spirit as to give a certain unity of purpose to the scope and ends of the institution as a whole.

The teaching body consists of sixty Professors, Instructors, and Lecturers.

During the year 1893–94, the various departments of the Institute were attended by more than 2700 students. The total attendance at the free public lectures and concerts was over 35,000.

Departments

DEPARTMENT OF FINE AND APPLIED ART

I. Fine Art.

1. *A Systematic Course*, of four years, in Drawing (Elementary and Antique), Painting (Water-color and Oil), Perspective, Modeling, Life, History of Art, etc.

2. *Special Courses* in any of the preceding branches.

3. *Illustration.*—A class in Illustration, to be conducted by the eminent illustrator, Mr. Howard Pyle, will begin in October of the present year. The instruction will embrace Technique, Principles, Composition, etc. The class will meet on Saturday afternoons, to enable persons occupied during the rest of the week to attend. An examination in Drawing is required for admission to this course.

II. Applied Art.

1. *Architecture.*—(1) A Systematic Course, of three years. This course is intended for boys of about sixteen years of age, who have had a good elementary education. (2) Advanced Special Courses to suit the needs of individual students.

2. *Design and Decoration.*—(1) A Systematic Course, of three years, in Drawing; Water-color; Historic Ornament; Principles of Design; Application of Design to decoration, wall-paper, textiles, woodwork, metal-work, furniture, book-covers, etc. (2) Special Courses to suit the needs of individual students.

3. *Wood-Carving.* — Ornament; original designs for panels; carved enrichments for furniture; frames; architectural decoration.

4. *Interior Decoration.*—Designs for wall decoration; fresco-painting.

5. *Stained Glass.*—Designing and practical work.

DEPARTMENT OF SCIENCE AND TECHNOLOGY

I. Systematic Courses in Mathematics, Chemistry, Physics; lectures on Physiology and Hygiene. In the courses in Chemistry and Physics, the larger portion of the time is given to laboratory work.

II. Mechanical Drawing.—A two years' course for the training of mechanical draftsmen, including Drawing, Mathematics, with Shop-work in Wood and Iron for the purpose of familiarizing the student with the practical applications of drafting.

III. Machine Construction.—A Systematic Course, of two years, in Mathematics, Mechanical and Free-hand Drawing, Shop-work in Wood and Iron, Machine Construction, Theory and Practice of the Steam Engine. During the second year, the larger portion of the time is devoted to work in the Machine Shop.

IV. Electrical Engineering.—A Systematic Course, of two years, embracing Theory of Currents and Current Distribution, Magnets, Magnetic Induction and Permeability of Iron, Dynamos and Motors, Alternating Currents, Telegraph and Telephone, Power and Light distribution; practical training in the Engineering Laboratory and in connection with the extensive plant of the Institute. An examination covering the course of instruction embraced in the Department of Mechanic Arts, or its equivalent, is required for admission to this course.

DEPARTMENT OF MECHANIC ARTS

A Systematic Course, of three years, in English, Mathematics, Drawing (Mechanical and Free-hand), Science (Physics and Chemistry), Shop-work in Wood and Iron, Machine-work, in connection with the essential English branches of a secondary education.

The whole course of instruction is so broad and yet so practical that the graduate cannot fail to find some occupation for which his taste and aptitude fit him, and at the same time he will be prepared for such an advanced scientific or technical course as he may desire to pursue.

BUSINESS DEPARTMENT

I. Commercial Course, extending through two years, in English, Commercial Arithmetic, Penmanship, Accounts, Bookkeeping, Commercial Law, Commercial Geography, History of Commerce, Civics, etc.

Shorter Special Courses to suit the needs of individual students

II. Course in Stenography and Typewriting, including English and Civics. One year.

III. Normal Course for the training of Teachers of Business. Two years.

DEPARTMENT OF DOMESTIC SCIENCE AND ARTS

I. Domestic Science Courses.

1. *Regular Course*, of two years, consisting of required and elective studies.

2. *Special Courses* or *Group Courses*, to suit the needs of individual students.

These courses are intended to provide thorough instruction and training in which the affairs of the household occupy a prominent place. While the objects sought are to a considerable extent practical, in the best sense of that term, the courses of study, whether regular or special, aim to widen the culture of young women in directions that have been heretofore neglected in their general education. The scope and purpose of the instruction naturally lead to the development of those qualities of mind and character that are of chief importance in the conduct of life.

The education given in these courses affords a broad preparation for the management of the household and for business, industrial, or professional pursuits.

II. Cookery Courses.—These courses are both general and professional in character. The special object of each is sufficiently indicated by its title. All the instruction in Cookery is thoroughly scientific as well as practical in its methods and results.

1. *Courses in General Cookery:* three successive courses, each occupying one term. Students enter for one term at a time.
2. *Course in Invalid Cookery.*
3. *Housekeeper's Course.*
4. *Children's Saturday Morning Class.*
5. *Normal Course* for the training of Teachers of Domestic Science; including besides the theoretical and practical training in Cookery, instruction in Household Economy, Chemistry (lectures and laboratory work), Physics (lectures and laboratory work), Physiology and Hygiene, Bacteriology (lectures and laboratory work), Economics, Physical Training, Theory and Practice of Teaching. Two years.

III. Dressmaking Courses.—Three successive technical courses, each course occupying one term, with the auxiliary

branches—Drawing and Color Study for the designing of dresses; Business Forms and Accounts. Students enter for one term at a time.

IV. Millinery Courses.—Three successive technical courses, each course occupying one term, with the auxiliary branches—Drawing and Water-color adapted to the designing of hats; Business Forms and Accounts. Students enter for one term at a time.

DEPARTMENT OF PHYSICAL TRAINING

I. Regular Course for students belonging to other departments of the Institute.

II. Courses for Special Students.—Gymnastic training twice a week. A course of lectures on Physiology and Hygiene is given in connection with the special courses.

DEPARTMENT OF MUSIC, PUBLIC LECTURES, AND ENTERTAINMENTS

I. Choral Music.—Evening Classes for beginners and advanced students. Weekly from October to March, inclusive. The instruction in the Choral Classes is free, but each student pays one dollar annually for registration.

II. Drexel Chorus for the cultivation of advanced choral and oratorio music. Weekly meetings during the winter. The annual registration fee is two dollars.

III. Free Public Concerts.—Chiefly organ recitals. Weekly during the winter months.

IV. Free Courses of Public Lectures in Art, Science, Technology, etc., during the winter months.

A special circular giving information concerning the Free Public Lectures and Concerts is issued in October.

LIBRARY DEPARTMENT

I. Library Class.—For the training of Library Assistants; embracing instruction in Cataloguing, Library Economy, History of Literature, Bibliography, History of Books and Printing, Current Topics, Proof-reading, etc.

II Library and Reading-room.—Open daily to the public free, as well as to the students, from 9 a. m. to 6 p. m.; from October to March, inclusive, 9 a. m. to 10 p. m.; Saturdays till 6 p. m.

MUSEUM DEPARTMENT

The Collections in Industrial Art, Paintings, etc., are open daily to the public free, as well as to the students, from 9 a. m. to 6 p. m.; from October to March, inclusive, 9 a. m. to 10 p. m.; Saturdays till 6 p. m.

Extensive use is made of the Museum collections, in connection with the instruction in nearly all the departments of the Institute.

EVENING CLASSES

From October to April, inclusive, courses are open during five nights of the week, in the following Departments: *Fine and Applied Art*—Free-hand Drawing, Drawing from the Antique, Clay Modeling, Life Class, Pen and Ink Drawing, Architectural Drawing and Building Construction, Design, Decorative Painting, Wood-Carving. *Science and Technology*—Mathematics, Mechanical Drawing, Chemistry, Physics, Shop-work in Wood and Iron, Electrical Engineering, Machine Construction. *Domestic Science and Arts*—Cookery, Dressmaking, and Millinery. *Business*—Commercial Arithmetic, Accounts, Bookkeeping, etc.; Stenography and Typewriting. *Economics, English Language, Choral Music, Physical Training.*

The fees in the Evening Classes vary from three dollars to six dollars for the entire term of six months.

A special circular giving full information concerning the Evening Classes is issued in September.

Special circulars of the several Departments, giving full details of the courses of instruction, requirements for admission, fees, etc., can be obtained on application at the Office of the Secretary and Registrar.

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